



ADVANCED RESEARCH PROJECTS AGENCY
WASHINGTON, D.C.

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100 dg
K Jun 59

**MEMORANDUM FOR THE COMMANDER, AIR FORCE BALLISTIC
MISSILE DIVISION**

SUBJECT: Release of Technical Data to the Signal Corps

Reference is made to the attached correspondence: Request for Technical Data, dated May 12, 1959, from SIGRU to Chief Signal Officer; 1st Indorsement, dated June 2, 1959, from OCSigO to ARPA.

It is requested that a representative of the DISCOVERER program establish contact with Colonel F. P. Rosso, U. S. Army Signal Electronic Research Unit, Mountain View, California, to establish a procedure for release of the technical data required for the Signal Corps program in passive tests of electronic countermeasures equipment.

This procedure is proposed instead of that suggested in paragraph 4 of the basic correspondence to permit consideration of provision of evaluated and corrected data, which may be available only from internal sources of the DISCOVERER program.

Dent L. Lay
Colonel, USAF
Acting Director
Technical Operations Division

1 Incl:
Ltr, dtd May 12, 1959,
w/1st Ind.

cc: OCSigO, Dept. of Army

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

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U. S. ARMY SIGNAL ELECTRONIC MESSAGE CENTER
FORT MONTELEONE, CALIFORNIA

IN CASE OF EMERGENCY

SGRU

12 May 1959

SUBJECT: Request for Technical Data (U)

**TO: Chief Signal Officer
Department of the Army
Washington 25, D. C.
ATTN: SGORD-9-a2**

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DOD DIR 5200.10

1. Reference your 1st Indorsement dated 27 March 1959, File SGORD-9-a2 (18 Feb 59), subject as above.

2. Paragraph 3 of the referenced letter indicates that the Discoverer Project Engineer at ARPA has been verbally advised of the Signal Corps' need for pre-launch data.

3. The Office of the Deputy Commander, Army, Pacific Missile Range, states that release of the post-launch data, which we require, can be made only if permission is granted by the action agency.

4. It is requested that your office request ARPA to instruct the Deputy Commander, Army, Pacific Missile Range, to release post-flight data on their missile launches to this Unit. The post-flight data should include the data requirements contained in the inclosed pre-flight and post-flight data requirements chart (they are the same as those required by ONR on Cape Canaveral).

1 Incl
Pre-Flight and Post-
Flight Data Requirements

FRANK P. ROSSO
Lt. Colonel, SigC
CO and COTR

Copy furnished:
DCA, PMR, Ft. Mugu, Calif.
ATTN: Lt. Colonel Isenson

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PRE-FLIGHT AND POST-FLIGHT DATA REQUIREMENTS

<u>EVENT</u>	<u>DATA</u>	<u>PRECISION</u>
Every 50 KM altitude on ascent and descent of all stages and nose cone (i. e. 50 KM, 100 KM etc.)	Time Position	± 1 sec Range ± 1 NM Altitude ± 1 KM
Ignition of all stages	Time Position	± 1 sec Range ± 1 KM Altitude ± 1 KM
Burnout of all stages	Time Position	± 1 sec Range ± 1 NM Altitude ± 1 KM
Command Destruct	Time Position	± 1 sec Range ± 1 NM Altitude ± 1 KM
Apogee of all stages and nose cone	Time Position	± 1 sec Range ± 1 NM Altitude ± 1 KM
Impact for all stages and nose cone	Time Position	± 1 sec Range ± 1 NM Altitude ± 1 KM
Schedule Shoots (for planning purposes).		
Countdown		

COORDINATE SYSTEM

An earth centered coordinate system giving latitude and longitude to a precision of one minute (1 NM) and heights to a precision of 1 kilometer is desired. The coordinates based on Clark's spheroid are of little value because of the distances involved. If it is available, a plot of the missile path showing trajectories (to impact) of the missile, its various stages and nose cone, is desired.

FORM

M D C E

Tabular for all data except the above

1020 11150 1110108

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SIGR-9-22 (12 May 1959) 1st Ind (U)
SUBJECT: Request for Technical Data (U)

Hq. DA, OCSigO, Washington 25, D. C., 2 JUN 1959

TO: Director, Advanced Research Projects Agency, Washington 25, D. C.,
ATTN: Mr. E. L. Eaton

1. (U) It is requested that you approve release of the data listed in the inclosure to the U. S. Army Signal Electronic Research Unit, Mountain View, California, as requested in paragraph 1 of the basic letter.

2. (U) Paragraph 2 of the letter makes reference to discussions at your office in March 1959, among Colonel F. O. Nadler (ARPA), Mr. E. L. Eaton (ARPA) and Mr. D. E. Serice (OCSigO) regarding passive tests of the AN/NSQ-19 electronic countermeasures equipment. It was agreed that your office would consider approval of release of the information needed by OO, USASMC should this become necessary. With the information requested the Signal Corps expects to obtain valuable propagation data which will aid in evaluation and design of ECM equipment.

3. (U) This 1st Indorsement will be regraded UNCLASSIFIED on 26 May 1962.

FOR THE CHIEF SIGNAL OFFICER:

1 Incl
N/s

Copy furnished:
OO, USASMC

ARTHUR W. HENK
1st Colonel, Signal Corps
Chief, Air Defense and Countermeasures
Branch
Research and Development Division

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DECLASSIFIED AFTER 10 YEARS
DCE DIR 5200.10

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